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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/774,885	02/01/2001	Scott Keller	Q62892	3182
75	90 03/16/2006		EXAM	INER
SUGHRUE, MION, ZINN,			DO, ANH HONG	
MACPEAK & SEAS, PLLC 2100 PENNSYLVANIA AVENUE, N.W.			ART UNIT	PAPER NUMBER
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Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)
	09/774,885	KELLER ET AL.
Office Action Summary	Examiner	Art Unit
	ANH H. DO	2627
The MAILING DATE of this communication appeared for Reply	pears on the cover sheet with the c	orrespondence address
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D  - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period  - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailine earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 136(a). In no event, however, may a reply be timwill apply and will expire SIX (6) MONTHS from e, cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).
Status		
Responsive to communication(s) filed on 12/2     This action is <b>FINAL</b> . 2b)⊠ This     Since this application is in condition for alloward closed in accordance with the practice under the second seco	s action is non-final. ince except for formal matters, pro	
Disposition of Claims		
4)  Claim(s) 1-28 is/are pending in the application 4a) Of the above claim(s) 2 is/are withdrawn fr 5)  Claim(s) 5,8-10,12,13 and 18-23 is/are allowe 6)  Claim(s) 1,3,4,6,7,11,14-17,24,27 and 28 is/ar 7)  Claim(s) 25 and 26 is/are objected to. 8)  Claim(s) are subject to restriction and/o	rom consideration. d. re rejected.	
··· _		
9) The specification is objected to by the Examina 10) The drawing(s) filed on is/are: a) accomposed and accomposed accomposed accomposed and accomposed and accomposed a	cepted or b) objected to by the land drawing(s) be held in abeyance. Settion is required if the drawing(s) is objected.	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119		
12) ☐ Acknowledgment is made of a claim for foreign a) ☐ All b) ☐ Some * c) ☐ None of:      1. ☐ Certified copies of the priority document 2. ☐ Certified copies of the priority document 3. ☐ Copies of the certified copies of the priority application from the International Bureat*  * See the attached detailed Office action for a list.	ts have been received.  ts have been received in Applicationity documents have been received in (PCT Rule 17.2(a)).	ion No ed in this National Stage
Attachment(s)  1) Notice of References Cited (PTO-892)  2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)		
Paper No(s)/Mail Date	6)  Other:	

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#### **DETAILED ACTION**

1. In reply to the Applicant's Representative call on 3/10/2006 to verify the status of claims 12, 13, 22, and 23, a supplemental Office Action is issued to replace the previous one for correcting the status of these claims.

## Response to Arguments

2. Applicant's request for reconsideration of the finality of the rejection of the last Office action is persuasive and, therefore, the finality of that action is withdrawn.

In response to the Applicant's argument that there is no suggestion in Hiyama to control the amount of compressed data, it should be noted that Hiyama clearly teaches "when the remaining capacity of the large capacity storage medium 77 (which stores tow year irreversibly compressed image data) available for additional new image data becomes less than a predetermined amount, the control device 78 sends an alarm signal to the endoscope devices" (col. 6, lines 20-25). Thus, the system of Hiyama does need to control the compressed data amount. In other words, the compression ratio needs to be controlled. Therefore, Hiyama can be combined to Yoshida to obtain the invention as specified in claims 1 and 14.

## Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

<sup>(</sup>a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the

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invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

4. Claims 1, 3, 4, 6, 7, 11, 14-17, 24, 27 and 28 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hiyama et al. (U.S. Patent No. 5,361,203) in view of Yoshida et al. (U.S. Patent No. 6,690,417).

Regarding claim 1, Hiyama discloses an image storage and display system comprising an image server 6 storing image data recorded on a high readout-speed capable storage medium 70 and a display terminal 63 connected to said image server via a network (Fig. 8), wherein:

- said image server 6 is provided with a storage control means 68 that creates reversible compressed image data of the original image data, and at least one irreversible compressed image data (Fig. 8; col. 5, lines 17-26), and stores in storage medium 70 said reversible compressed image data and said irreversible compressed image data, which stand for the multiple versions of image data (Fig. 8 and col. 5, lines 26-30);
- said display terminal 63 is provided with an input means 62 capable of receiving specification of a version of the image data or the image data group to be displayed on said display terminal 63, and acquisition means 72 for acquiring the version of said image data or said image data group received in said input means (Fig. 8).

Hiyama does not disclose expressly changing a compression ratio of said irreversible compressed image data.

Yoshida discloses controlling (i.e., changing) a compression ratio of the irreversible compressed image data (col. 3, lines 43-50 and col. 31, lines 26-28).

Hiyama & Yoshida are combinable because they are from image compression field.

At the time of the invention, it would have been obvious to a person of ordinary skill in the art to change the compression ratio of the irreversible compressed image data as taught by Yoshida in the compression system of Hiyama.

The suggestion/motivation for doing so would have been able to control the amount of image data to be stored in the memory (Yoshida, col. 3, lines 47-50, and Hiyama, col. 6, lines 20-25).

Therefore, it would have been obvious to combine Hiyama with Yoshida to obtain the invention as specified in claim 1.

Regarding claims 3 and 4, Hiyama teaches:

- wherein said storage control means 68 assigns to each version a parameter representing the image usage purpose represented by each version of image data (col. 5, lines 23-26, teaches a patient data is added to each version of the image data), and stores each version of image data in the storage medium 70 (Fig. 8);
- said input means 62 is capable of receiving specification of the version of image data as the image usage purpose represented by each version of said image data (corresponding to the patient data) (Fig. 8, and col. 5, lines 13-17);
  - wherein the image recording control device 72 (corresponding to the

claimed acquisition means) retrieves (i.e., acquires) the version of image data corresponding to the desired image usage purpose (i.e., patient data) received in input means 62 (Fig. 8 and col. 5, lines 53-56).

Regarding claim 6, Hiyama teaches:

- said storage control means 68 stores in said storage medium 70 said multiple versions of image data along with the original image data diagnosis information (Fig. 8 and col. 5, lines 50-56, teaches diagnosis information, e.g., patient examination database);
- said acquisition means 72 acquires the versions of image data and image data groups along with said diagnosis information received in input means 62 (Fig. 8 and col. 5, lines 53-56, teaches retrieving a patient data in the patient examination database).

Regarding claim 7, Hiyama teaches:

- said image server 6 is provided with a diagnosis-status management means 76 for managing the diagnosis status (i.e., the examination ID data) of said original image data (Fig. 8);
- said storage control means 68 controls, according to said diagnosis status, which versions of image data are acquired at said display terminal 63 (Fig. 8).

Regarding claim 11, although neither Hiyama nor specifically teach that the compression ratio is 1/5 to 1/50, such limitation is merely a matter of design choice d would be obvious in the combined system of Hiyama and Yoshida. Yoshida teaches controlling (i.e., changing) a compression ratio of the irreversible compressed image

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data (col. 3, lines 43-50 and col. 31, lines 26-28). The limitation of claim 11 does not define a patentably distinct invention over that in Hiyama and Yoshida since both the invention as a whole and Hiyama and Yoshida are directed to changing the compression ratio. The degree in which the compression ratio is changed is inconsequential for the invention as a whole and presents no new or unexpected result, so long as the compression ratio is successfully changed. Therefore, to have the compression ratio that is 1/5 to 1/50 in Hiyama and Yoshida would have been a matter of design choice to one of ordinary skill in the art.

Regarding claim 14, Hiyama discloses:

- said image server 6 is provided with a storage control means 68 that creates reversible compressed image data of the original image data, and at least one irreversible compressed image data (Fig. 8; col. 5, lines 17-26), and stores in storage medium 70 said reversible compressed image data and said irreversible compressed image data, which stand for the multiple versions of image data (Fig. 8 and col. 5, lines 26-30);
- said display terminal 63 is provided with an input means 62 capable of receiving specification of a version of the image data or the image data group to be displayed on said display terminal 63, and acquisition means 72 for acquiring the version of said image data or said image data group received in said input means (Fig. 8).

Hiyama does not disclose expressly changing a compression ratio of said irreversible compressed image data.

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Yoshida discloses controlling (i.e., changing) a compression ratio of the irreversible compressed image data (col. 3, lines 43-50 and col. 31, lines 26-28).

Hiyama & Yoshida are combinable because they are from image compression field.

At the time of the invention, it would have been obvious to a person of ordinary skill in the art to change the compression ratio of the irreversible compressed image data as taught by Yoshida in the compression system of Hiyama.

The suggestion/motivation for doing so would have been able to control the amount of image data to be stored in the memory (Yoshida, col. 3, lines 47-50, and Hiyama, col. 6, lines 20-25).

Therefore, it would have been obvious to combine Hiyama with Yoshida to obtain the invention as specified in claim 14.

Regarding claim 15, Hiyama teaches wherein said reversible compressed image data and said at least one irreversible compressed image data are stored on one physical device 70 (Fig. 8; col. 5, lines 26-30).

Regarding claim 16, Hiyama teaches wherein the version of the image data is defined by compression type (col. 5, lines 17-23, teaching irreversible compression type).

Regarding claim 17, Hiyama teaches wherein the image data group represents a plurality of image data with the same version (col. 4, line 65 – col. 5, line 4, teaching a plurality of image data comprising the endoscope image data and the ultrasonic image data in the same version).

Regarding claim 24, Hiyama teaches two irreversible compressed images (Fig. 8: image compression device 66 for creating an irreversible endoscope compressed image and an irreversible ultrasonic compressed image from the endoscope image data and the ultrasonic image data received by image data/ld device 62).

Regarding claim 27, Hiyama discloses the storage control means 68 and the display terminal 63 is separated from the server 74 (Fig. 8).

Regarding claim 28, Hiyama discloses the input means 62 and the acquisition means 72 (Fig. 8).

### Allowable Subject Matter

- 5. Claims 5, 8-10, 12, 13, and 18-23 are allowed.
- 6. Claims 25 and 26 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- 7. The following is a statement of reasons for the indication of allowable subject matter:

Regarding independent claim 5, the prior art, either taken singly or in combination, does not teach:

- wherein said storage control means... to a progressively extractable datacompression process, and wherein said acquisition means... compressed image data.

Regarding claims 12, 13, 18, 22, and 23 since they depend upon claim 5, they are also allowable for the same reason.

Regarding independent claims 8-10, the prior art, either taken singly or in combination, does not teach:

- deleting the original image data or the reversible compressed image data from high readout-speed capable storage medium after a predetermined period of time has elapsed.

Regarding claims 19-21, since they depend claims 8-10, respectively, they are also allowable for the same reason.

Regarding claim 25, the prior art, either taken singly or in combination, does not teach:

- wherein the two irreversible compressed images are created using different compression ratios.

Regarding claim 26, the prior art, either taken singly or in combination, does not teach:

- wherein a plurality of compression ratios are selectable by the storage control means based on a type of apparatus creating the original image data.

## Contact Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to ANH H. DO whose telephone number is 571-272-7433. The examiner can normally be reached on 5/4-9.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, MATTHEW BELLA can be reached on 571-272-7778. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

March 14, 2006

ANH HONG DO PRIMARY EXAMINER